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PA - (FURU) FURUKAWA ELECTRIC CO LTD

- (NITE) NIPPON TELEGRAPH & TELEPHONE CORP

PN - JP60090853 A 19850522 DW198527 005pp

- JP2542356B2 B2 19961009 DW199645 C03C25/02 004pp

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AB - J60090853 Optical glass product e.g. porous glass soot preform,
transparent glass preform and optical fibre etc. is improved in
radio-active rays resistance by treating it in a H₂-bearing atmos. at
elevated temp.

- (50 deg.C or higher of Hydrogen is diffused into the optical glass
prod. and bound to defective part of product e.g. O etc. to form OH
radical, so that the defective part is removed and excellent
radio-active rays resistance is achieved. The higher the treating
temp. under H₂-bearing atmos., the shorter the treating time and the
stronger the binding strength of OH radical to the defective part. The
treatment temp. is pref. kept at 100 - 250 deg.C to prevent damage to
primary coatings.

- ADVANTAGE - OH radical is thoroughly and effectively contained in the
inside of the optical glass product so as to be improved in
radioactive rays resistance without any devitrification.(0/0)

IW - MANUFACTURE RADIATE RESISTANCE OPTICAL PREFORM FIBRE HEAT TREAT
HYDROGEN CONTAIN ATMOSPHERE

IKW - MANUFACTURE RADIATE RESISTANCE OPTICAL PREFORM FIBRE HEAT TREAT
HYDROGEN CONTAIN ATMOSPHERE

NC - 001

OPD - 1983-10-22

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PAW - (FURU) FURUKAWA ELECTRIC CO LTD

- (NITE) NIPPON TELEGRAPH & TELEPHONE CORP

TI - Mfg. radiation-resistant optical preform or fibre - by heat treatment
in hydrogen-contg. atmos.

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